



**Cyber Security (CYBER);
Cyber Security for Consumer Internet of Things;
Requirements for Residential Smart Door Locking Devices**

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Reference

RTS/CYBER-00178

Keywords

cybersecurity, IoT, security, smart appliance

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Contents

Intellectual Property Rights	5
Foreword.....	5
Modal verbs terminology.....	5
Introduction	5
1 Scope	7
2 References	7
2.1 Normative references	7
2.2 Informative references.....	8
3 Definition of terms, symbols and abbreviations.....	8
3.1 Terms.....	8
3.2 Symbols.....	8
3.3 Abbreviations	8
4 Methodology and general requirements	9
4.1 Introduction	9
4.2 Handling of provisions	9
4.3 Naming conventions.....	10
5 Adapted cyber security provisions for Residential Smart Door Locking Devices.....	10
5.0 Reporting implementation.....	10
5.1 No universal default passwords.....	10
5.2 Implement a means to manage reports of vulnerabilities	11
5.3 Keep software updated	11
5.4 Securely store sensitive security parameters	12
5.5 Communicate securely	12
5.6 Minimize exposed attack surfaces.....	12
5.7 Ensure software integrity.....	12
5.8 Ensure that personal data is secure	13
5.9 Make systems resilient to outages	13
5.10 Examine system telemetry data	13
5.11 Make it easy for users to delete user data.....	13
5.12 Make installation and maintenance of devices easy	14
5.13 Validate input data.....	14
6 Adapted data protection provisions for Residential Smart Door Locking Devices.....	14
7 Additional cyber security provisions for Residential Smart Door Locking Devices	14
7.1 Storing personal data securely	14
7.2 System failure documentation	14
7.3 Web and SDL mobile applications.....	14
Annex A (informative): Basic concepts, threat models, risk analysis	15
A.1 Drawing/overview of a Residential Smart Door Locking Devices	15
A.1.1 General	15
A.1.2 Interfaces	15
A.2 Components of a Residential Smart Door Locking Devices solution.....	16
A.2.1 Components in a Residential Smart Door Locking Devices	16
A.2.2 Interfaces	17
A.3 Use cases/applications	18
A.4 Threat methodology based on use cases or interface	19
A.5 Security levels of Smart Door Locking Devices	19
Annex B (informative): Implementation conformance statement pro forma	21

B.1	The right to copy	21
B.2	Implementation conformance statement.....	21
Annex C (normative):	Non-cyber security aspects for Residential Smart Door Locking Devices	25
C.1	Mechanical security.....	25
C.2	Electromechanical security.....	26
C.3	Credential security.....	26
Annex D (informative):	Bibliography.....	28
History		29

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Cyber Security (CYBER).

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

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Introduction

As more Smart Door Locking Devices (SDLs) in the home connect to the internet, the cyber security of the Internet of Things becomes a growing concern. People entrust their personal data to an increasing number of online devices and services. Products and appliances that have traditionally been offline are now connected and need to be designed to withstand cyber threats.

The present document brings together widely considered good practise in security for Internet-connected consumer devices in a set of high-level outcome-focused provisions. The objective of the present document is to support all parties involved in the development and manufacturing of consumer IoT with guidance on securing their products.

The present document is a vertical standard of ETSI EN 303 645 [1], which describes and uses a corresponding methodology to modify existing and add new security and data protection requirements specifically for Residential Smart Door Locking Devices. The present document also includes reference to security characteristics defined for building hardware in CEN EN standards.

A separate document will provide guidance on how to assess and assure Residential Smart Door Locking Devices against provisions within the present document.

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1 Scope

The present document specifies requirements for consumer residential Smart Door Locking Device (SDL) including apps:

- cyber security;
- credential related security; and
- electromechanical security and/or mechanical security.

The present document builds on ETSI EN 303 645 [1] for cyber security requirements, adding additional provisions specific to smart door locking devices.

The present document also builds on other EN standards for credential related security, electromechanical security and mechanical security.

A description of the basic concepts of Residential Smart Door Locking Devices is given in Annex A.

2 References

2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

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The following referenced documents are necessary for the application of the present document.

- [1] [ETSI EN 303 645 \(V3.1.3\)](#): "CYBER; Cyber Security for Consumer Internet of Things: Baseline Requirements".
- [2] [EN 1303:2026](#): "Building hardware - Cylinders for locks - Requirements and test methods" (produced by CEN).
- [3] [EN 1906:2012](#): "Building hardware - Lever handles and knob furniture - Requirements and test methods" (produced by CEN).
- [4] [EN 12209:2024](#): "Building hardware - Mechanically operated locks and locking plates - Requirements and test methods" (produced by CEN).
- [5] [EN 14846:2008](#): "Building hardware - Locks and latches - Electromechanically operated locks and striking plates - Requirements and test methods" (produced by CEN).
- [6] [EN 16867:2020 + Addendum 2:2024](#): "Building hardware - Mechatronic door furniture - Requirements and test methods" (produced by CEN).
- [7] [EN 15684:2020](#): "Building hardware - Mechatronic cylinders - Requirements and test methods" (produced by CEN).
- [8] [EN 15685:2024](#): "Building hardware - Requirements and test methods - Multipoint locks, latches and locking plates - Characteristics and test methods".
- [9] [EN 1627:2021](#): "Pedestrian doorsets, windows, curtain walling, grilles and shutters - Burglar resistance - Requirements and classification (produced by CEN)".